

#3



OIPE

RAW SEQUENCE LISTING

DATE: 03/12/2003

PATENT APPLICATION: US/10/075,947A

TIME: 13:52:14

Input Set : A:\Mskp13n1.txt

Output Set: N:\CRF4\03122003\J075947A.raw

3 <110> APPLICANT: Cheung, Nai-Kong V.
 4 Larson, Steven M.
 5 Guo, Hong-Fen
 6 Rivlin, Ken
 7 Sadelain, Michel
 9 <120> TITLE OF INVENTION: Single Chain FV Constructs of Anti-Ganglioside GD2
 10 Antibodies
 12 <130> FILE REFERENCE: MSK.P-013-2
 14 <140> CURRENT APPLICATION NUMBER: 10/075,947A
 15 <141> CURRENT FILING DATE: 2002-02-13
 17 <150> PRIOR APPLICATION NUMBER: 09/142,974
 18 <151> PRIOR FILING DATE: 1998-09-18
 20 <150> PRIOR APPLICATION NUMBER: PCT/US97/04427
 21 <151> PRIOR FILING DATE: 1997-03-20
 23 <150> PRIOR APPLICATION NUMBER: 60/013,703
 24 <151> PRIOR FILING DATE: 1996-03-20
 26 <160> NUMBER OF SEQ ID NOS: 5
 28 <170> SOFTWARE: PatentIn Ver. 2.1
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 717
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Murine
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: 5F11-scFv
 38 <220> FEATURE:
 39 <221> NAME/KEY: unsure
 40 <222> LOCATION: (37) ✓
 42 <220> FEATURE:
 43 <221> NAME/KEY: unsure
 44 <222> LOCATION: (79) ✓
 46 <400> SEQUENCE: 1

ENTERED

W--> 47 caggtgaaac tgcagcagtc aggacctgaa ctggtgnagc ctggggcttc agtgaagata 60
 48 tcctgcaaga cttctggana caaattcact gaatacacca tgcactgggt gaagcagagc 120
 49 catggaaaga gccttgagtg gattggaggt attaatccta acaatggtgg tactaactac 180
 50 aagcagaagt tcaagggcaa ggccacattg actgtagaca agtcctccag cacagcctac 240
 51 atggagctcc gcagcctgac atctgaggat tctgcagtct attactgtgc aagagatact 300
 52 acggtcccgt ttgcttactg ggtccaagg accacgggtca ccgtctcctc aggtggaggc 360
 53 gggttcaggcg gaggtggctc tggcgggtggc ggatcggaca tcgagctcac tcagtctcca 420
 54 gcaatcatgt ctgcatctcc aggggagaag gtcaccatga cctgcagtgg cagctcaagt 480
 55 ataagttaca tgcactggta ccagcagaag cctgtcacct ccccaaaaag atggatttat 540
 56 gacacatcca aactggcttc tggagtccct gctcgcttca gtggcagtgg gtctgggacc 600
 57 tcttattctc tcacaatcag cagcatggag gctgtagatg ctgccactta ttactgccat 660
 58 cagcggagta gttaccgct caggttcggt gctgggacac agttggaaat aaaacgg 717

RAW SEQUENCE LISTING

DATE: 03/12/2003

PATENT APPLICATION: US/10/075,947A

TIME: 13:52:14

Input Set : A:\Mskp13n1.txt

Output Set: N:\CRF4\03122003\J075947A.raw

61 <210> SEQ ID NO: 2
 62 <211> LENGTH: 714
 63 <212> TYPE: DNA
 64 <213> ORGANISM: Murine
 66 <220> FEATURE:
 67 <223> OTHER INFORMATION: 3G6-scFv
 69 <400> SEQUENCE: 2

```

70 agtattgtga tgaccagac tcccaaattc ctgcttgtat cagcaggaga cagggttacc 60
71 ataacctgca aggccagtca gagtgtgagt aatgatgtgg ctgtgtacca acagaagcca 120
72 gggcagctctc cgaaactgct gatatactct gcatccaatc gctacactgg agtccctgat 180
73 cgcttcactg cgagtgata tgggacggat ttacatttca ccatcagcac tgtgcaggct 240
74 gaagacctgg cagtttattt ctgtcagcag gattatagct cgctcggagg ggggaccaag 300
75 ctggaaataa aagggtggagg cggttcaggc ggaggtggct ctggcggagg cggatcgag 360
76 gtgcagggtga aggagtcagg acctggcctg gtggcgccct cacagagcct gtccatcact 420
77 tgcactgtct ctgggttttc attaaccaat tatggtgtac actgggttcg ccagcctcca 480
78 ggaaagggtc tggagtggct gggagtaata tgggctgggt gaagcaciaa ttataattcg 540
79 gctcttatgt ccagactgag catcagcaag gacaactcca agagccaagt tttcttaaaa 600
80 atgaacagtc tgcaaactga tgacacagcc atgtactact gtgccagtcg ggggggtaac 660
81 tacggctatg ctttggacta ctggggtcaa ggaacctcag tcaccgtctc ctca 714

```

84 <210> SEQ ID NO: 3
 85 <211> LENGTH: 1176
 86 <212> TYPE: DNA
 87 <213> ORGANISM: Murine
 89 <220> FEATURE:
 90 <223> OTHER INFORMATION: 5F11-scFv-streptavidin
 92 <220> FEATURE:
 93 <221> NAME/KEY: unsure
 94 <222> LOCATION: (37)
 96 <220> FEATURE:
 97 <221> NAME/KEY: unsure
 98 <222> LOCATION: (79)
 100 <400> SEQUENCE: 3

```

W--> 101 caggtgaaac tgcagcagtc aggacctgaa ctggtgnagc ctggggcttc agtgaagata 60
102 tcctgcaaga cttctggana caaattcact gaatacacca tgcactgggt gaagcagagc 120
103 catggaaaga gccttgagtg gattggagggt attaatccta acaatggtgg tactaactac 180
104 aagcagaagt tcaagggcaa ggccacattg actgtagaca agtccctccag cacagcctac 240
105 atggagctcc gcagcctgac atctgaggat tctgcagtct attactgtgc aagagatact 300
106 acggtcccgt ttgcttactg ggtccaaggg accacgggtc cgtctcctc aggtggaggc 360
107 ggttcaggcg gaggtggctc tggcgggtgc ggatcggaca tcgagtcac tcagtctcca 420
108 gcaatcatgt ctgcatctcc aggggagaag gtcaccatga cctgcagtgg cagctcaagt 480
109 ataagttaca tgcactggta ccagcagaag cctgtcacct ccccaaaaag atggatttat 540
110 gacacatcca aactggcttc tggagtccct gctcgttca gtggcagtgg gtctgggacc 600
111 tcttattctc tcacaatcag cagcatggag gctgtagatg ctgccactta ttactgccat 660
112 cagcggagta gttaccgct caggttcggt gctgggacac agttggaaat aaaacggggc 720
113 gccgctggat ccggtgctgc tgaagcaggt atcaccggca cctggtacaa ccagctcggc 780
114 tcgaccttca tcgtgaccgc gggcgccgac ggcgcctga ccggaaccta cgagtcggcc 840
115 gtcggcaacg ccgagagccg ctacgtcctg accggtcgtt acgacagcg cccggccacc 900
116 gacggcagcg gcaccgccct cggttggacg gtggcctgga agaataacta ccgcaacgcc 960
117 cactccgcga ccacgtggag cggccagtac gtcggcggcg ccgaggcga gatcaacacc 1020

```

RAW SEQUENCE LISTING

DATE: 03/12/2003

PATENT APPLICATION: US/10/075,947A

TIME: 13:52:14

Input Set : A:\Mskp13n1.txt

Output Set: N:\CRF4\03122003\J075947A.raw

```

118 cagtggctgc tgacctccg cacaaccgag gccaacgcct ggaagtccac gctggctcggc 1080
119 cagcacacct tcaccaaggt gaagccgtcc gccgcctccg gatccgaaca aaagctgatc 1140
120 tcagaagaag atctatgcat acatcaccat catcat 1176
123 <210> SEQ ID NO: 4
124 <211> LENGTH: 1173
125 <212> TYPE: DNA
126 <213> ORGANISM: Murine
128 <220> FEATURE:
129 <223> OTHER INFORMATION: 3G6-scFv-streptavidin
131 <400> SEQUENCE: 4
132 agtattgtga tgaccagac tcccaaattc ctgcttgat cagcaggaga cagggttacc 60
133 ataacctgca aggccagtca gagtgtgagt aatgatgtgg cttggtacca acagaagcca 120
134 gggcagtcct cgaactgct gatatactct gcatccaatc gctacactgg agtccctgat 180
135 cgcttctact gcagtggata tgggacggat ttcactttca ccatcagcac tgtgcaggct 240
136 gaagacctgg cagtttattt ctgtcagcag gattatagct cgctcggagg ggggaccaag 300
137 ctggaaataa aaggtggagg cggttcaggc ggaggtggct ctggcgggtg cggatcgag 360
138 gtgcaggatga aggagtcagg acctggcctg gtggcgccct cacagagcct gtccatcact 420
139 tgcactgtct ctgggttttc attaaccaat tatggtgtac actgggttcg ccagcctcca 480
140 ggaaaggggtc tggagtggct gggagtaata tgggctggtg gaagcacaaa ttataattcg 540
141 gctcttatgt ccagactgag catcagcaag gacaactcca agagccaagt tttcttaaaa 600
142 atgaacagtc tgcaactga tgacacagcc atgtactact gtgccagtcg ggggggtaac 660
143 tacggctatg ctttggaacta ctgggggtcaa ggaacctcag tcaccgtctc ctcagcggcc 720
144 gctggatccg gtgctgctga agcaggatc accggcacct ggtacaacca gtcgggctcg 780
145 accttcacg tgaccgcggg cgccgacggc gccctgaccg gaacctacga gtcggccgct 840
146 ggcaacgccg agagccgcta cgtcctgacc ggtcgttacg acagcgcccc ggccaccgac 900
147 ggcagcggca ccgcccctcg ttggacgggt gcctggaaga ataactaccg caacgcccac 960
148 tccgcgacca cgtggagcgg ccagtacgtc ggcggcgcgg aggcgaggat caacacccag 1020
149 tggctgctga cctccggcac aaccgaggcc aacgcctgga agtccacgct ggtcggccac 1080
150 gacaccttca ccaaggtgaa gccgtccgcc gcctccggat ccgaacaaaa gctgatctca 1140
151 gaagaagatc tatgcataca tcaccatcat cat 1173
154 <210> SEQ ID NO: 5
155 <211> LENGTH: 13
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Description of Artificial Sequence: antibody tag
162 <400> SEQUENCE: 5
163 Gly Ala Pro Val Pro Asp Pro Leu Glu Pro Arg
164 1 5 10

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/075,947A

DATE: 03/12/2003
TIME: 13:52:15

Input Set : A:\Mskp13n1.txt
Output Set: N:\CRF4\03122003\J075947A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 37,79 ✓

Seq#:3; N Pos. 37,79 ✓